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CONTENTS AND AUTHOR INDEX
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ACTA METALLURGICA ET MATERIALIA
CONTENTS OF VOLUME 39

NUMBER 1

A. Hütten and P. Haasen	1	Constitution of melt-spun NdFeB-magnets studied by analytical field ion microscopy
A. Chiba, D. Shindo and S. Hanada	13	Site occupation determination of Pd in Ni_3Al by ALCHEMI
H. Gudmundsson, D. Brooks and J. A. Wert	19	Mechanisms of continuous recrystallization in an Al–Zr–Si alloy
G. Ghosh, M. Chandrasekaran and L. Delaey	37	Effect of micro-additions of Mo, P, Si and Ti on the thermal stability of $Ni_{24}Zr_{76}$ metallic glass
R. J. Arsenault, L. Wang and C. R. Feng	47	Strengthening of composites due to microstructural changes in the matrix
D. J. Lloyd	59	Aspects of fracture in particulate reinforced metal matrix composites
M. Taya, K. E. Lulay and D. J. Lloyd	73	Strengthening of a particulate metal matrix composite by quenching
William C. Johnson and W. H. Müller	89	Characteristics of phase equilibria in coherent solids
P. A. Tibbits	105	Reexamination of a 1955 theory of climb-controlled steady-state creep
J. Yao and J. R. Cahoon	111	Theoretical modeling of grain boundary diffusion of hydrogen and its effect on permeation curves
J. Yao and J. R. Cahoon	119	Experimental studies of grain boundary diffusion of hydrogen in metals

NUMBER 2

D. C. Dunand and A. Mortensen	127	On plastic relaxation of thermal stresses in reinforced metals
C. C. Anya and T. N. Baker	141	The effect of grain size on the "alloy-softening" of low carbon structural steels by silicon
S. Goto and M. McLean	153	Role of interfaces in creep of fibre-reinforced metal–matrix composites—I. Continuous fibres
S. Goto and M. McLean	165	Role of interfaces in creep of fibre-reinforced metal–matrix composites—II. Short fibres

W. Robison, R. Sharma and L. Eyring — 179 — Observation of gold–silicon alloy formation in thin films by high resolution electron microscopy

F. R. N. Nabarro — 187 — The dependence of activation enthalpy on stress in shear processes

A. S. Booth, M. Cosgrave and S. G. Roberts — 191 — The warm-prestressing effect in silicon

Woo-Jin Kim, J. Wolfenstine and O. D. Sherby — 199 — Tensile ductility of superplastic ceramics and metallic alloys

F. F. Lange, L. Atteraas, F. Zok and J. R. Porter — 209 — Deformation consolidation of metal powders containing steel inclusions

G. Eggeler — 221 — Microstructural parameters for creep damage quantification

B. A. Greenberg, O. V. Antonova, V. N. Indenbaum, L. E. Karkina, A. B. Notkin, M. V. Ponomarev and L. V. Smirnov — 233 — Dislocation transformations and the anomalies of deformation characteristics in TiAl—I. Models of dislocation blocking

B. A. Greenberg, O. V. Antonova, V. N. Indenbaum, L. E. Karkina, A. B. Notkin, M. V. Ponomarev and L. V. Smirnov — 243 — Dislocation transformations and the anomalies of deformation characteristics in TiAl—II. The structure of dislocation ensemble: experiment and theory

NUMBER 3

R. Pippan — 255 — Dislocation emission and fatigue crack growth threshold

I. Müller and Huibin Xu — 263 — On the pseudo-elastic hysteresis

S. Atamert and J. E. King — 273 — Elemental partitioning and microstructural development in duplex stainless steel weld metal

M. Kléman and Ch. Sommers — 287 — Dislocations in a Penrose lattice

A. Kimura and H. K. Birnbaum — 295 — Effect of adsorbed surface poisons on the loss of hydrogen from nickel

C.-H. Jan, D. Swenson, X.-Y. Zheng, J.-C. Lin and Y. A. Chang — 303 — On the determination of diffusion coefficients in multiphase ternary couples

P. Guyot and G. M. Raynaud — 317 — Dislocation structure distributions and properties of heavily cold rolled aluminum and aluminum–magnesium alloys

C. F. Lau and H. W. Kui	323	Microstructures of undercooled germanium
R. Bonnet et D. David	329	Estimation des énergies de fautes intrinsèques dans des phases (Ni, Al, Ti, Cr) basées sur Ni_3Al
S. R. Ortner	341	A STEM study of the effect of precipitation on grain boundary chemistry in AISI 304 steel
W. Kesternich, N. H. Packan and H. Schroeder	351	Radiation-induced precipitation at grain boundaries in Ni–8 at.% Si
T. D. Le and I. M. Bernstein	363	Effects of hydrogen on dislocation morphology in spheroidized steel
U. Wolf, S. M. Foiles and H. F. Fischmeister	373	Study of misfit dislocations at the interface of weakly bonded metal/metal systems
R. A. Vandermeer, R. A. Masumura and B. B. Rath	383	Microstructural paths of shape-preserved nucleation and growth transformations
F. Barlat and A. K. Vasudévan	391	Influence of precipitate microstructure on flow and forming properties of an aluminum alloy sheet
K. S. Ravichandran	401	Near threshold fatigue crack growth behavior of a titanium alloy: Ti–6Al–4V
W. B. Lee and K. C. Chan	411	A criterion for the prediction of shear band angles in f.c.c. metals
V. Tvergaard	419	Failure by ductile cavity growth at a metal–ceramic interface

NUMBER 4

R. R. Kieschke, R. E. Somekh and T. W. Clyne	427	Overview No. 91: Sputter deposited barrier coatings on SiC monofilaments for use in reactive metallic matrices—I. Optimisation of barrier structure
C. M. Warwick, R. R. Kieschke and T. W. Clyne	437	Overview No. 91: Sputter deposited barrier coatings on SiC monofilaments for use in reactive metallic matrices—II. System stress state
R. R. Kieschke, C. M. Warwick and T. W. Clyne	445	Overview No. 91: Sputter deposited barrier coatings on SiC monofilaments for use in reactive metallic matrices—III. Microstructural stability in composites based on magnesium and titanium
P. Magnin and R. Trivedi	453	Eutectic growth: a modification of the Jackson and Hunt theory
P. Magnin, J. T. Mason and R. Trivedi	469	Growth of irregular eutectics and the Al–Si system

V. Randle	481	Interactions between grain boundaries and helium bubbles in an austenitic steel during strain induced grain growth
T. Mohri, K. Terakura, S. Takizawa and J. M. Sanchez	493	First-principles study of short range order and instabilities in Au–Cu, Au–Ag and Au–Pd alloys
J. M. Vitek, S. A. David, D. J. Alexander, J. R. Keiser and R. K. Nanstad	503	Low temperature aging behavior of type 308 stainless steel weld metal
R. Sasikumar and T. R. Ramamohan	517	Distortion of the temperature and solute concentration fields due to the presence of particles at the solidification front—effects on particle pushing
Dongliang Lin (T. L. Lin), Da Chen and Hui Lin	523	Investigation of the segregation behavior of boron in Ni_3Al alloys by PTA technique
O. Kwon and A. J. DeArdo	529	Interactions between recrystallization and precipitation in hot-deformed microalloyed steels
F.-S. Shieu and S. L. Sass	539	Dislocation mechanisms for the relaxation of thermal stress at metal–ceramic interfaces
Ph. Tavernier and J. A. Szpunar	549	Modelling of recrystallization textures
Ph. Tavernier and J. A. Szpunar	557	A Monte-Carlo simulation applied to the modelling of nucleation of texture
R. W. Hayes	569	On the creep behavior of the Ti_3Al titanium aluminide Ti–25Al–10Nb–3V–1Mo
B. N. Cox and D. B. Marshall	579	Stable and unstable solutions for bridged cracks in various specimens
J. K. Park and A. J. Ardell	591	Microchemical analysis of precipitate free zones in 7075-Al in the T6, T7 and RRA tempers
D. S. Stone	599	Scaling laws in dislocation creep
A. K. Tyagi, M.-P. Macht and V. Naundorf	609	Diffusion coefficients of ^{63}Ni in $Fe_{40}Ni_{40}B_{20}$ metallic glass
G. H. Rubiolo	619	Temperature and strain rate superposition properties of low cycle fatigue failure curves in the Coffin–Manson representation
E. I. Rabkin, V. N. Semenov, L. S. Shvindlerman and B. B. Straumal	627	Penetration of tin and zinc along tilt grain boundaries 43° [100] in Fe–5 at.% Si alloy: premelting phase transition?
H. J. Vogel and L. Ratke	641	Instability of grain boundary grooves due to equilibrium grain boundary diffusion

S. Q. Xiao and P. Haasen	651	HREM investigation of homogeneous decomposition in a Ni–12 at.% Al alloy
O. A. Ruano, J. Wolfenstine, J. Wadsworth and O. D. Sherby	661	Harper–Dorn and power law creep in uranium dioxide
A. G. Fox and M. A. Tabbernor	669	The bonding charge density of β'NiAl
C. Gandhi and R. Raj	679	A model for subgrain superplastic flow in aluminum alloys
J. J. Hoyt and S. Spooner	689	The surface energy of metastable Al_3Li precipitates from coarsening kinetics
W. F. Flanagan, P. Bastias and B. D. Lichter	695	A theory of transgranular stress-corrosion cracking
K. Yaldram and K. Binder	707	Spinodal decomposition of a two-dimensional model alloy with mobile vacancies
D. Rittel, R. Aharonov, G. Feigin and I. Roman	719	Experimental investigation of surface instabilities in cylindrical tensile metallic specimens

NUMBER 5

B. Basu, J. A. Sekhar, R. J. Schaefer and R. Mehrabian	725	Analysis of the steady state molten pool obtained by heating a substrate with an electron beam
J. R. Brockenbrough, S. Suresh and H. A. Wienecke	735	Deformation of metal–matrix composites with continuous fibers: geometrical effects of fiber distribution and shape
P. Fratzl, F. Langmayr, G. Vogl and W. Miekeley	753	The growth of ω-phase inclusions in Ti–20 at.% Mo and the competition between elastic and surface energies
J. Harase, R. Shimizu and D. J. Dingley	763	Texture evolution in the presence of precipitates in Fe–3% Si alloy
S. A. Dregia and P. Wynblatt	771	Equilibrium segregation and interfacial energy in multi-component systems
Jian-Sheng Wang and P. M. Anderson	779	Fracture behavior of embrittled f.c.c. metal bicrystals
D. M. Knowles and J. E. King	793	The influence of ageing on fatigue crack growth in SiC-particulate reinforced 8090
M. Srinivas, G. Malakondaiah, R. W. Armstrong and P. Rama Rao	807	Ductile fracture toughness of polycrystalline Armco iron of varying grain size
T. Sakata, H. Mori and H. Fujita	817	Electron irradiation induced crystalline–amorphous transition in a $Co_{75}B_{25}$ alloy

K. H. Hwang, W. S. Yang, T. B. Wu, C. M. Wan and J. G. Byrne	825	Long-period stacking-fault structure of the needle-like phase in a duplex Fe–Mn–Al–C alloy
B. N. Pramila Bai and S. K. Biswas	833	Effect of magnesium addition and heat treatment on mild wear of hypoeutectic aluminium–silicon alloys
P. Y. Hou and J. Stringer	841	Room temperature strains in Cr_2O_3 scales formed at elevated temperatures on Ni–25wt%Cr and Y- and Al-doped Ni–25wt%Cr
H.-R. Sinning	851	Low-frequency internal friction of $Pd_{40}Ni_{40}P_{20}$ near the glass transition
D. H. Kim, K. Chattopadhyay and B. Cantor	859	Quasicrystalline and related crystalline phases in a rapidly solidified 2024-2Li aluminium alloy
Q. Tan and T. S. Kê (Ge Tingsui)	877	Internal friction peak (P3 peak) attributed to the interaction of Cottrell atmosphere of magnesium atoms with dislocation kinks in aluminium
T. S. Kê (Ge Tingsui) and Q. Tan	885	Internal friction peak associated with the enhanced re-orientation of split interstitials of magnesium atoms in close vicinity of the dislocation kinks in aluminium
X. Y. Huang, W. Mader and R. Kirchheim	893	Hydrogen and oxygen at metal/oxide interfaces
Song Shenhua, Xu Tingdong, Yuan Zhexi and Yu Zongsen	909	Equilibrium grain-boundary segregation and the effect of boron in B-doped Fe–30 wt%Ni austenitic alloy
L. Ratke and H. J. Vogel	915	Theory of grain boundary grooving in the convective–diffusive regime
G. Ghosh, M. Chandrasekaran and L. Delaey	925	Isothermal crystallization kinetics of $Ni_{24}Zr_{76}$ and $Ni_{24}(Zr\text{-}X)_{76}$ amorphous alloys
Y. Torisaka	937	Superplasticity and internal friction of nickel-base superalloy
Y. Torisaka and S. Kojima	947	Superplasticity and internal friction of a superplastic Zn–22% Al eutectoid alloy
B. Derby	955	The dependence of grain size on stress during dynamic recrystallisation
J. Svoboda	963	Numerical study of cavity nucleation kinetics
S. Onaka, T. Okada and M. Kato	971	Relaxation kinetics and relaxed stresses caused by interface diffusion around spheroidal inclusions
H. N. G. Wadley, R. J. Schaefer, A. H. Kahn, M. F. Ashby, R. B. Clough, Y. Geffen and J. J. Wlassich	979	Sensing and modeling of the hot isostatic pressing of copper pressing

C. Michaelsen and L. Schultz	987	Structural study of amorphous Zr–Fe–B and Zr–Fe–Si alloys by ^{57}Fe-Mössbauer and magnetization measurements
C. S. Nichols and D. R. Clarke	995	Critical currents in inhomogeneous triangular Josephson arrays: a model for polycrystalline superconductors
H. J. Fecht	1003	Phase selection during crystallization of undercooled liquid eutectic lead–tin alloys
P. R. Munroe and I. Baker	1011	Observation of ⟨001⟩ dislocations and a mechanism for transgranular fracture on {001} in FeAl
J. B. Davis, H. C. Cao, G. Bao and A. G. Evans	1019	The fracture energy of interfaces: an elastic indentation technique

NUMBER 6

M. F. Ashby	1025	Overview No. 92: Materials and shape
X. W. Zhou and T. Y. Hsu (Xu Zuyao)	1041	Thermodynamics of the martensitic transformation in Cu–Al alloys
X. W. Zhou and T. Y. Hsu (Xu Zuyao)	1045	Thermodynamics of the martensitic transformation in Cu–Zn–Al alloys
Shyh-Chin Huang and E. L. Hall	1053	Characterization of the effect of vanadium additions to TiAl base alloys
F. Delannay and P. Warren	1061	On crack interaction and crack density in strain-induced cracking of brittle films on ductile substrates
U. P. Singh and S. Banerjee	1073	On the origin of pop-in crack extension
W. A. Spitzig	1085	Strengthening in heavily deformation processed Cu–20%Nb
C.-L. Yu and T.-P. Perng	1091	Surface effects on electrochemical hydrogen diffusion in stainless steels
Jing-Jy Lin and Tsong-Pyng Perng	1101	Concentration dependence of hydrogen diffusivity in amorphous $Fe_{40}Ni_{38}Mo_4B_{18}$ alloy
M. Hillert and T. Sakuma	1111	Thermodynamic modeling of the c→t transformation in ZrO_2 alloys
D. B. Zahl and R. M. McMeeking	1117	The influence of residual stress on the yielding of metal matrix composites
S. Kajiwara and T. Kikuchi	1123	On the abnormally large tetragonality of martensite in Fe–Ni–C alloys
H. Siethoff, K. Ahlborn and H. G. Brion	1133	The effect of solutes on the dynamical recovery of silicon and germanium
T. Baykara and G. M. Pharr	1141	Effects of liquid phases on intrinsic interfacial sliding of alkali halide crystals

N. K. Mukhopadhyay, K. N. Ishihara, S. Ranganathan and K. Chattopadhyay	1151	Rational approximant structures and phason strain in icosahedral quasicrystalline phases
Ph. A. Dubey, B. Schönfeld and G. Kostorz	1161	Shape and internal structure of Guinier–Preston zones in Al–Ag
H. E. Dève and A. G. Evans	1171	Twin toughening in titanium aluminide
C. Sommer, H.-J. Christ and H. Mughrabi	1177	Non-linear elastic behaviour of the roller bearing steel SAE 52100 during cyclic loading
B. N. Cox	1189	Extrinsic factors in the mechanics of bridged cracks
M. Manoharan, J. P. Hirth and A. R. Rosenfield	1203	Combined mode I–mode III fracture toughness of a spherodized 1090 steel
R. Becker	1211	Analysis of texture evolution in channel die compression—I. Effects of grain interaction
Sung-Man Lee and Jai-Young Lee	1231	The effect of hydrogen on the crystallization behavior of amorphous Pd–Si alloys
D. G. Ulmer and C. J. Altstetter	1237	Hydrogen-induced strain localization and failure of austenitic stainless steels at high hydrogen concentrations
Wei Bingbo, Yang Gencang and Zhou Yaohe	1249	High undercooling and rapid solidification of Ni–32.5% Sn eutectic alloy
D. L. Beke, P. I. Loeff and H. Bakker	1259	On the elastic mismatch in the order–disorder transformation and solid state amorphization of intermetallic compounds—I. Estimation of the elastic mismatch energy during order–disorder transition
D. L. Beke, H. Bakker and P. I. Loeff	1267	On the elastic mismatch in the order–disorder transformation and solid state amorphization of intermetallic compounds—II. Criteria for the solid–amorphous transformation in intermetallic compounds
Jun-Whan Jeong, Duk N. Yoon and Doh-Yeon Kim	1275	Chemically induced instability at interfaces of cubic ZrO_2–Y_2O_3 grains in a liquid matrix
S. Sangal, K. J. Kurzydlowski and K. Tangri	1281	The effect of extrinsic grain boundary dislocations on the grain size strengthening in polycrystals
M. Menyhard, B. Rothman, C. J. McMahon Jr, P. Lejcek and V. Paidar	1289	On the fracture path and the intergranular phosphorus distribution in phosphorus-doped Fe–Si symmetrical bicrystals
N. Ramakrishnan, H. Okada and S. N. Atluri	1297	Computer simulation of transformation induced plasticity using finite element method

S. Horibe and R. Hirahara 1309 Cyclic fatigue of ceramic materials: influence of crack path and fatigue mechanisms

D. L. Davidson, J. B. Campbell and J. Lankford 1319 Fatigue crack growth through partially stabilized zirconia at ambient and elevated temperatures

K. S. Ravichandran 1331 A rationalisation of fatigue thresholds in pearlitic steels using a theoretical model

K. S. Ravichandran and E. S. Dwarakadasa 1343 Theoretical modelling of the effects of grain size on the threshold for fatigue crack growth

C. S. Pande and E. Dantsker 1359 On a stochastic theory of grain growth—III

T. J. Marrow, C. A. Hippsley and J. E. King 1367 Effect of mean stress on hydrogen assisted fatigue crack propagation in duplex stainless steel

NUMBER 7

J. Hjelen, R. Ørsund and E. Nes 1377 Overview No. 93: On the origin of recrystallization textures in aluminium

D. C. Dunand and A. Mortensen 1405 Dislocation emission at fibers—I. Theory of longitudinal punching by thermal stresses

D. C. Dunand and A. Mortensen 1417 Dislocation emission at fibers—II. Experiments and microstructure of thermal punching

M. Gremaud, M. Carrard and W. Kurz 1431 Banding phenomena in Al–Fe alloys subjected to laser surface treatment

H. Fukutomi, T. Iseki, T. Endo and T. Kamijo 1445 Sliding behavior of coincidence grain boundaries deviating from ideal symmetric tilt relationship

L. L. Lisiecki and O. B. Pedersen 1449 Temperature dependence of cyclic saturation in low amplitude fatigue of copper single crystals

D. B. Miracle 1457 Deformation in NiAl bicrystals

A. Serra, R. C. Pond and D. J. Bacon 1469 Computer simulation of the structure and mobility of twinning dislocations in h.c.p. metals

M. Zhu, T. C. Li, J. T. Liu and D. Z. Yang 1481 Microstructure characteristics of NiTi shape memory alloy obtained by explosive compact of elemental nickel and titanium powders

I. Manna, S. K. Pabi and W. Gust 1489 Discontinuous precipitation in a Cu–12 at.% In alloy

J. Eckert, L. Schultz and K. Urban 1497 Formation of quasicrystalline and amorphous phases in mechanically alloyed Al-based and Ti–Ni-based alloys

M. D. Mathew, V. Singh, W. Chen and R. P. Wahi	1507	Life prediction for a nickel base alloy Nimonic PE 16 under low cycle fatigue loading at 923 K
D. Mukherji, F. Jiao, W. Chen and R. P. Wahi	1515	Stacking fault formation in γ' phase during monotonic deformation of IN738LC at elevated temperatures
M. S. Laws and P. J. Goodhew	1525	Grain boundary structure and chromium segregation in a 316 stainless steel
R. Busch and V. Ruth	1535	The contribution of lateral mass flow effects to the compensation of unequal diffusion rates in the gold–silver system
H. F. Lopez	1543	Analysis of solute segregation effects on the peritectic transformation
M. Tanaka, T. Sakaki and H. Iizuka	1549	Creep deformation of ductile two-phase alloys
L. Clapham, C. Jagadish and D. L. Atherton	1555	The influence of pearlite on Barkhausen noise generation in plain carbon steels
V. Kwong, Y. C. Koo, S. J. Thorpe and K. T. Aust	1563	Crystallization behaviour of $Al_{85}Y_{10}Ni_5$ by isochronal and isothermal annealing
P. A. Deymier, M. Shamsuzzoha and J. D. Weinberg	1571	A study of grain boundary translational states in a $\Sigma 3[\bar{1}10]/(\bar{1}\bar{1}1)$ bicrystal
A. Bartlett, A. G. Evans and M. Rühle	1579	Residual stress cracking of metal/ceramic bonds
M. Y. He and A. G. Evans	1587	The strength and fracture of metal/ceramic bonds
D. L. Zhang and B. Cantor	1595	Melting behaviour of In and Pb particles embedded in an Al matrix
Ch. V. Kopezky, A. V. Andreeva and G. D. Sukhomlin	1603	Multiple twinning and specific properties of $\Sigma = 3^n$ boundaries in f.c.c. crystals
J. S. Huang and L. J. Gibson	1617	Fracture toughness of brittle honeycombs
J. S. Huang and L. J. Gibson	1627	Fracture toughness of brittle foams
I. Baker, P. Nagpal, F. Liu and P. R. Munroe	1637	The effect of grain size on the yield strength of FeAl and NiAl
M. Bayerlein and H. Mughrabi	1645	The formation of either tongue- or ribbon-like extrusions in fatigued copper polycrystals
C. Phaniraj, M. Nandagopal, S. L. Mannan and P. Rodriguez	1651	The relationship between transient and steady state creep in AISI 304 stainless steel

C. S. Nichols, R. F. Cook, D. R. Clarke and D. A. Smith — 1657 — Alternative length scales for polycrystalline materials—I. Microstructure evolution

C. S. Nichols, R. F. Cook, D. R. Clarke and D. A. Smith — 1667 — Alternative length scales for polycrystalline materials—II. Cluster morphology

U. Prakash, R. A. Buckley and H. Jones — 1677 — Novel faulted structures in rapidly solidified Fe–37 at.% Al–15 at.% Mo alloy

P. Villechaise, J. Mendez and P. Violan — 1683 — Cyclic behaviour and surface slip features in ⟨111⟩ oriented copper single crystals

Jai-Young Lee, Woo-Cheal Choi, Yong-Gyoo Kim and Jeong-Yong Lee — 1693 — Transformation characteristics of hydrogen-induced amorphization of the ordered Zr_3Al phase

B. G. Eristavi, E. M. Diasamidze, R. N. Dekanosidze, N. I. Maisuradze, E. R. Kutelia, A. V. Sichinava and N. E. Menabde — 1703 — Structural transformations of oxygen implanted surfaces of refractory metals (Mo, W, Nb)

T. E. Mitchell and J. P. Hirth — 1711 — The shape, configuration and stress field of twins and martensite plates

NUMBER 8

H. J. Roven and E. Nes — 1719 — Overview No. 94: Cyclic deformation of ferritic steel—I. Stress–strain response and structure evolution

H. J. Roven and E. Nes — 1735 — Overview No. 94: Cyclic deformation of ferritic steel—II. Stage II crack propagation

H. Ezaki, M. Morinaga, M. Kato and N. Yukawa — 1755 — Electronic and atomic-size effects on the omega phase formation in transition-metal based b.c.c. alloys

D. G. Morris and M. A. Morris — 1763 — Microstructure and strength of nanocrystalline copper alloy prepared by mechanical alloying

D. G. Morris and M. A. Morris — 1771 — Mechanical properties of FeAl–ZrB_2 alloys prepared by rapid solidification

Y. Brechet, J. D. Embury, S. Tao and L. Luo — 1781 — Damage initiation in metal matrix composites

P. Lours, A. Coujou and P. Coulomb — 1787 — On the deformation of the ⟨100⟩ orientated γ' strengthening phase of the CMSX2 superalloy

A. Chiba, S. Hanada and S. Watanabe	1799	Ductilization of Ni_3Al by macroalloying with Pd
C. W. Price	1807	Analysis of models for grain-impingement compensation and their effect on recrystallization kinetics
S. V. Raj and T. G. Langdon	1817	Creep behavior of copper at intermediate temperatures—II. Surface microstructural observations
S. V. Raj and T. G. Langdon	1823	Creep behavior of copper at intermediate temperatures—III. A comparison with theory
J. C. Holzer and K. F. Kelton	1833	Kinetics of the amorphous to icosahedral phase transformation in Al–Cu–V alloys
P. F. P. Fichtner, H. Schroeder and H. Trinkaus	1845	A simulation study of Ostwald ripening of gas bubbles in metals accounting for real gas behaviour
T. C. Lu, A. G. Evans, R. J. Hecht and R. Mehrabian	1853	Toughening of $MoSi_2$ with a ductile (niobium) reinforcement
J. Yang, S. M. Pickard, C. Cady, A. G. Evans and R. Mehrabian	1863	The stress/strain behavior of aluminum matrix composites with discontinuous reinforcements
G. Bao, J. W. Hutchinson and R. M. McMeeking	1871	Particle reinforcement of ductile matrices against plastic flow and creep
T. C. Lu, J. Yang, Z. Suo, A. G. Evans, R. Hecht and R. Mehrabian	1883	Matrix cracking in intermetallic composites caused by thermal expansion mismatch
W. Łojkowski	1891	On the spreading of grain boundary dislocations and its effect on grain boundary properties
K. J. Hemker, M. J. Mills and W. D. Nix	1901	An investigation of the mechanisms that control intermediate temperature creep of Ni_3Al
K. P. Trumble and M. Rühle	1915	The thermodynamics of spinel interphase formation at diffusion-bonded Ni/Al_2O_3 interfaces
A. Garg and J. M. Howe	1925	Nucleation and growth of Ω phase in Al–4.0 Cu–0.5 Mg–0.5 Ag alloy—an *in situ* hot-stage TEM study
A. Garg and J. M. Howe	1939	Convergent-beam electron diffraction analysis of the Ω phase in an Al–4.0 Cu–0.5 Mg–0.5 Ag alloy
T. Kamijo, A. Fujiwara, Y. Yoneda and H. Fukutomi	1947	Formation of cube texture in copper single crystals
J. Kwieciński and J. W. Wyrzykowski	1953	Investigation of grain boundary self-diffusion at low temperatures in polycrystalline aluminium by means of the dislocation spreading method

L. A. Bendersky, W. J. Boettinger and A. Roytburd	1959	Coherent precipitates in the b.c.c./orthorhombic two-phase field of the Ti–Al–Nb system
C. Y. Barlow and N. Hansen	1971	Deformation structures and flow stress in aluminium containing short whiskers
R. S. Hay and L. E. Matson	1981	Alumina/yttrium–aluminum garnet crystallographic orientation relationships and interphase boundaries: observations and interpretation by geometric criteria
Y. Deng and G. S. Ansell	1995	Boundary friction for thermoelastic martensitic transformations
M. J. Pfeifer and P. W. Voorhees	2001	A graphical method for constructing coherent phase diagrams
Y. Enomoto	2013	Finite volume fraction effects on coarsening—II. Interface-limited growth
F. E. Heredia and D. P. Pope	2017	Effect of boron additions on the ductility and fracture behavior of Ni_3Al single crystals
F. E. Heredia and D. P. Pope	2027	The plastic flow of binary Ni_3Al single crystals
T. Narutani and J. Takamura	2037	Grain-size strengthening in terms of dislocation density measured by resistivity
C. Wei, S. Lin, R. G. Qian and J. M. Hsiao	2051	Computer simulation of the effect of grain size on the properties of polycrystalline specimens by finite element method

NUMBER 9

	i	The *Acta Metallurgica* J. Herbert Holloman Award
Oh-Hun Kwon and G. L. Messing	2059	A theoretical analysis of solution-precipitation controlled densification during liquid phase sintering
H. C. Lin, S. K. Wu, T. S. Chou and H. P. Kao	2069	The effects of cold rolling on the martensitic transformation of an equiatomic TiNi alloy
W. W. Mullins	2081	The statistical particle growth law in self-similar coarsening
J. J. Hoyt	2091	On the coarsening of precipitates located on grain boundaries and dislocations
B. G. Pound	2099	Hydrogen trapping in work-hardened alloys
L. Battezzati, C. Antonione, G. Riontino, F. Marino and H.-R. Sinning	2107	The crystallization of a $Pd_{60}Ti_{20}Si_{20}$ metallic glass

J. D. Hunt	2117	A numerical analysis of dendritic and cellular growth of a pure material investigating the transition from "array" to "isolated" growth
H. W. Hesselbarth and I. R. Göbel	2135	Simulation of recrystallization by cellular automata
R. M. Cannon, B. J. Dalgleish, R. H. Dauskardt, T. S. Oh and R. O. Ritchie	2145	Cyclic fatigue-crack propagation along ceramic/metal interfaces
T. Takasugi	2157	Hydrogen embrittlement of $L1_2$-type $Ni_3(Al, Ti)$ single crystals
Jong M. Han, Cha Y. Lim and Young G. Kim	2169	The role of deformation twinning on mechanical properties of an austenitic Fe–30Mn–1.2Al–0.3C alloy
P. Rachev, L. Terziev, J. Lecomte-Beckers and J. Wegria	2177	Electron microscopical investigations of hexagonal phase precipitation in Zn–12 wt% Al–1 wt% Cu and Zn–27 wt% Al–2 wt% Cu alloys
R. D. K. Misra and P. Rama Rao	2183	On the grain boundary chemistry of chromium containing martensitic steels

NUMBER 10

J. W. Cahn	2189	Stability, microstructural evolution, grain growth, and coarsening in a two-dimensional two-phase microstructure
K. K. Ray and D. Mondal	2201	The effect of interlamellar spacing on strength of pearlite in annealed eutectoid and hypoeutectoid plain carbon steels
L. Zhao and K. Tangri	2209	TEM investigation on the interfacial boundaries in as-cast $Ti_3Al + TiAl$ alloy
J. Besson and M. Abouaf	2225	Grain growth enhancement in alumina during hot isostatic pressing
M. Durman and S. Murphy	2235	Precipitation of metastable ϵ-phase in a hypereutectic zinc–aluminium alloy containing copper
H. Cai, J. T. Evans and N. J. H. Holroyd	2243	Unstable crack extension in high strength aluminium alloys
P. Mulheran and J. H. Harding	2251	A simple statistical model for grain growth in materials
A. Levy and J. M. Papazian	2255	Elastoplastic finite element analysis of short-fiber-reinforced SiC/Al composites: effects of thermal treatment
X. B. Zhou and J. Th. M. De Hosson	2267	Spinel/metal interfaces in laser coated steels: a transmission electron microscopy study

AM 39/12—U

H. E. Dève and M. J. Maloney	2275	On the toughening of intermetallics with ductile fibers: role of interfaces
Jianshe Lian and Jiwei Chen	2285	Isotropic polycrystal yield surfaces of b.c.c. and f.c.c. metals: crystallographic and continuum mechanics approaches
X. L. He, M. Djahazi, J. J. Jonas and J. Jackman	2295	The non-equilibrium segregation of boron during the recrystallization of Nb-treated HSLA steels
P. J. Desré	2309	Effect of sharp concentration gradients on the stability of a two-component amorphous layer obtained by solid state reaction
J. Llorca, A. Needleman and S. Suresh	2317	An analysis of the effects of matrix void growth on deformation and ductility in metal–ceramic composites
W. H. Gourdin and D. H. Lassila	2337	Flow stress of OFE copper at strain rates from 10^{-3} to $10^{4}\ s^{-1}$: grain-size effects and comparison to the mechanical threshold stress model
R. T. DeHoff	2349	A geometrically general theory of diffusion controlled coarsening
M. Zafrany, J. P. Peyrade, F. Voillot, R. Coquillé and L. P. Kubin	2361	Incremental creep testing: application to the plasticity of InP between 0.31 and 0.77 T_m
W. J. Liu, J. K. Brimacombe and E. B. Hawbolt	2373	Influence of composition on the diffusivity of carbon in steels—I. Non-alloyed austenite
M. De Graef, J. P. A. Löfvander and C. G. Levi	2381	The structure of complex monoborides in γ-TiAl alloys with Ta and B additions
G. González-Doncel, M. Torralba and O. A. Ruano	2393	Mechanical behavior and lattice reorientation during tensile deformation of Al–4%Cu–0.1%Fe single crystals
B. L. Adams and D. P. Field	2405	A statistical theory of creep in polycrystalline materials
R. Lerf and D. G. Morris	2419	Plastic deformation of an iron-modified titanium trialuminide alloy
K. Bhattacharya	2431	Wedge-like microstructure in martensites
O. Sahin and H. Margolin	2445	Elastic stresses and slip intersections with f.c.c. twins
B. Strnadel and K. Mazanec	2461	Low temperature transcrystalline failure in spheroidized steels
P. Lejček and S. Hofmann	2469	Segregation enthalpies of phosphorus, carbon and silicon at {013} and {012} symmetrical tilt grain boundaries in an Fe–3.5 at.% Si alloy

i 1991 Acta Metallurgica Gold Medal

P. R. Jemian, J. R. Weertman, G. G. Long and R. D. Spal — 2477 — Characterization of 9Cr–1MoVNb steel by anomalous small-angle X-ray scattering

S. Aharon and A. Brokman — 2489 — Lattice dynamics study of vibrational modes in gold Σ5[001] twist boundary

Liu Qiyang, Li Qingchun and Liu Qifu — 2497 — Modification of Al–Si alloys with sodium

R. Sasikumar and M. Kumar — 2503 — Redistribution of particles during casting of composite melts: effects of buoyancy and particle pushing

M. Bengisu, O. T. Inal and O. Tosyali — 2509 — On whisker toughening in ceramic materials

P. C. Searson — 2519 — Hydrogen evolution and entry in palladium at high current density

Shang-Xian Wu, Yiu-Wing Mai, B. Cotterell and Cuong Viet Le — 2527 — Ductile–brittle fracture transition due to increasing crack length in a medium carbon steel

Long-Qing Chen and A. G. Khachaturyan — 2533 — Computer simulation of structural transformations during precipitation of an ordered intermetallic phase

R. Nakkalil — 2553 — Formation of adiabatic shear bands in eutectoid steels in high strain rate compression

M. Kajihara and W. Gust — 2565 — Chemical composition of regions alloyed by DIGM or DIR

M. Bannister and M. F. Ashby — 2575 — The deformation and fracture of constrained metal sheets

G. Vekinis, M. F. Ashby and P. W. R. Beaumont — 2583 — The compressive failure of alumina containing controlled distributions of flaws

A. B. C. Dadson and R. D. Doherty — 2589 — Plane polarized optical microscopy studies of the structure of hot-deformed and partially recrystallized aluminium samples

R. Balasubramaniam, D. J. Duquette and K. Rajan — 2597 — On stress corrosion cracking in aluminum–lithium alloys

R. Balasubramaniam, D. J. Duquette and K. Rajan — 2607 — Hydride formation in an Al–Li–Cu alloy

T. Y. Hsu (Xu Zuyao) and X. W. Zhou	2615	Thermodynamics of the bainitic transformation in a Cu–Zn–Al alloy
G. Venkataraman, Y. W. Chung and T. Mura	2621	Application of minimum energy formalism in a multiple slip band model for fatigue—I. Calculation of slip band spacings
G. Venkataraman, Y. W. Chung and T. Mura	2631	Application of minimum energy formalism in a multiple slip band model for fatigue—II. Crack nucleation and derivation of a generalised Coffin–Manson law
F. Li and P. S. Bate	2639	Strain path change effects in cube textured aluminium sheet
E. M. Schulson, G. A. Kuehn, D. A. Jones and D. A. Fifolt	2651	The growth of wing cracks and the brittle compressive failure of ice
O. Yoshinari, K. Sanpei and K. Tanaka	2657	Hydrogen-solute interaction in nickel-based dilute alloys studied by internal friction technique
C. N. Tomé, R. A. Lebensohn and U. F. Kocks	2667	A model for texture development dominated by deformation twinning: application to zirconium alloys
P. Bacher, P. Wynblatt and S. M. Foiles	2681	A Monte Carlo study of the structure and composition of (001) semicoherent interphase boundaries in Cu–Ag–Au alloys
O. R. Myhr and Ø. Grong	2693	Process modelling applied to 6082-T6 aluminium weldments—I. Reaction kinetics
O. R. Myhr and Ø. Grong	2703	Process modelling applied to 6082-T6 aluminium weldments—II. Applications of model
A. van den Beukel	2709	Analysis of structural relaxation data in metallic glasses in terms of different models
K. Morii, T. Ohba, K. Otsuka, H. Sakamoto and K. Shimizu	2719	Crystallography of $\beta_2 \rightarrow \gamma_2'$ martensitic transformation in Au–47.5 at.% Cd and Au–47.5 at.% Cd–Cu alloys
P. V. Evans and S. R. Stiffler	2727	Interfacial atomic transport in the nucleation of crystalline silicon from the melt
J. Rösler, G. Bao and A. G. Evans	2733	The effects of diffusional relaxation on the creep strength of composites
Tong-Yi Zhang and J. C. M. Li	2739	Image forces and shielding effects of an edge dislocation near a finite length crack
C. McCullough, J. J. Valencia, C. G. Levi, R. Mehrabian, M. Maloney and R. Hecht	2745	Solidification paths of Ti–Ta–Al alloys

I. M. Wolff and A. Ball	2759	Ductility in high-chromium super-ferritic alloys—I. Microstructural influences on the ductile–brittle transition
I. M. Wolff and A. Ball	2771	Ductility in high-chromium super-ferritic alloys—II. Plastic deformation and crack-zone shielding
H.-A. Kuhn, H. Biermann, T. Ungár and H. Mughrabi	2783	An X-ray study of creep-deformation induced changes of the lattice mismatch in the γ'-hardened monocrystalline nickel-base superalloy SRR 99
A. Ludwig	2795	Limit of absolute stability for crystal growth into undercooled alloy melts
D. S. Schwartz, W. B. Yelon, R. R. Berliner, R. J. Lederich and S. M. L. Sastry	2799	A novel hydride phase in hydrogen charged Ti_3Al
A. Orlová	2805	On the relation between dislocation structure and internal stress measured in pure metals and single phase alloys in high temperature creep
B. J. Heuser, J. S. King, G. C. Summerfield, F. Boué and J. E. Epperson	2815	SANS measurement of deuterium trapping at dislocations and grain boundaries in palladium
J. D. Verhoeven, L. S. Chumbley, F. C. Laabs and W. A. Spitzig	2825	Measurement of filament spacing in deformation processed Cu–Nb alloys
M. Kuo and R. A. Fournelle	2835	Diffusion induced grain boundary migration (DIGM) and liquid film migration (LFM) in an Al–2.07 wt% Cu alloy
A. K. Singh, V. Singh and S. Lele	2847	Ground state structures in ordered binary h.c.p. alloys with pairwise third neighbour interactions
T. Furuhara and H. I. Aaronson	2857	Computer modeling of partially coherent b.c.c.:h.c.p. boundaries
T. Furuhara, J. M. Howe and H. I. Aaronson	2873	Interphase boundary structures of intragranular proeutectoid α plates in a hypoeutectoid Ti–Cr alloy
T. Furuhara and H. I. Aaronson	2887	Crystallography and interfacial structure of proeutectoid α grain boundary allotriomorphs in a hypoeutectoid Ti–Cr alloy
D. K. Kuhn and H. H. Johnson✠	2901	Transient analysis of hydrogen permeation through nickel membranes
Jenqdaw Wang and R. Raj	2909	Interface effects in superplastic deformation of alumina containing zirconia, titania or hafnia as a second phase

Y. Zhou, K. W. Neale and L. S. Tóth	2921	Analytical solutions for the ideal orientations of f.c.c. rolling textures
N. Akaiwa, S. C. Hardy and P. W. Voorhees	2931	The effects of convection on Ostwald ripening in solid–liquid mixtures
Y. Estrin, C. P. Ling and P. G. McCormick	2943	Localization of plastic flow: spatial vs temporal instabilities

NUMBER 12

R. D. Field, D. F. Lahrman and R. Darolia	2951	Slip systems in ⟨001⟩ oriented NiAl single crystals
R. D. Field, D. F. Lahrman and R. Darolia	2961	The effect of alloying on slip systems in ⟨001⟩ oriented NiAl single crystals
E. M. Schulson, Y. Xu, P. R. Munroe, S. Guha and I. Baker	2971	The yield strength of off-stoichiometric Ni_3Al with and without boron
Y. Estrin and P. G. McCormick	2977	Modelling the transient flow behaviour of dynamic strain ageing materials
W. Lengauer	2985	The titanium–nitrogen system: a study of phase reactions in the subnitride region by means of diffusion couples
H. C. Cao and A. G. Evans	2997	On crack extension in ductile/brittle laminates
P. Gomiero, F. Livet, O. Lyon and J. P. Simon	3007	Double structural hardening in an AlLiCuMg alloy studied by anomalous small angle X-ray scattering
J. N. Johnson, P. S. Lomdahl and J. M. Wills	3015	Analysis of internal stress and anelasticity in the shock-compressed state from unloading wave data
K. T. Park and E. Goo	3027	Deformation twinning in DO_3 ordered Fe_3Al alloys
T. G. Nieh and J. Wadsworth	3037	Superplasticity in fine-grained 20% Al_2O_3/YTZ composite
A. J. Wilkinson and D. J. Dingley	3047	Quantitative deformation studies using electron back scatter patterns
K. Trinckauf and E. Nembach	3057	Concentration gradients at the phase boundary between a γ'-precipitate and the γ-matrix of a superalloy
J. S. Zhang, P. E. Li and J. Z. Jin	3063	Combined matrix/boundary precipitation strengthening in creep of Fe–15 Cr–25 Ni alloys
R. Najafabadi, H. Y. Wang, D. J. Srolovitz and R. LeSar	3071	A new method for the simulation of alloys: application to interfacial segregation

D. Bouvard and F. F. Lange	3083	Relation between percolation and particle coordination in binary powder mixtures
O. I. Noskovich, E. I. Rabkin, V. N. Semenov, B. B. Straumal and L. S. Shvindlerman	3091	Wetting and premelting phase transitions in 38° [100] tilt grain boundary in (Fe–12 at.% Si)–Zn alloy in the vicinity of the A_2–B_2 bulk ordering in Fe–12 at.% Si alloy
W. B. Li, J. L. Henshall, R. M. Hooper and K. E. Easterling	3099	The mechanisms of indentation creep
L. Ben Mostefa, G. Saindrenan, M. P. Solignac and J. P. Colin	3111	Effect of interfacial sulfur segregation on the hot ductility drop of Fe–Ni36 alloys
Xu Tingdong, Song Shenhua, Shi Huazhong, W. Gust and Yuan Zhexi	3119	A method of determining the diffusion coefficient of vacancy–solute atom complexes during the segregation to grain boundaries
R. Lappalainen and R. Raj	3125	Microtensile superplasticity in ceramic fibers
I. E. Reimanis, B. J. Dalgleish and A. G. Evans	3133	The fracture resistance of a model metal/ceramic interface
S. M. Collard and R. B. McLellan	3143	High-temperature elastic constants of gold single-crystals
V. S. Ananthan and E. O. Hall	3153	Macroscopic aspects of Lüders band deformation in mild steel
Y. Watanabe, H. Nozaki, M. Kato and A. Sato	3161	Formation of $Fe_{16}N_2$ and development of magnetic anisotropy in a Fe–N alloy
A. Seki, D. N. Seidman, Y. Oh and S. M. Foiles	3167	Monte Carlo simulations of segregation at [001] twist boundaries in a Pt(Au) alloy—I. Results
A. Seki, D. N. Seidman, Y. Oh and S. M. Foiles	3179	Monte Carlo simulations of segregation at [001] twist boundaries in a Pt(Au) alloy—II. Discussion
R. Raj, A. Pearce and C. M. Kennefick	3187	Thin films of transition metals on oxides
A. V. Korznikov, I. M. Safarov, D. V. Laptionok and R. Z. Valiev	3193	Structure and properties of superfine-grained iron compacted out of ultradisperse powder
Y. Takahashi, K. Takahashi and K. Nishiguchi	3199	A numerical analysis of void shrinkage processes controlled by coupled surface and interface diffusion

C. McCullough and A. J. Baker — 3217 The role of grain boundary migration in reheat cracking

D. J. Schissler, A. H. Chokshi, T. G. Nieh and J. Wadsworth — 3227 Microstructural aspects of superplastic tensile deformation and cavitation failure in a fine-grained yttria stabilized tetragonal zirconia

Yeon-Wook Kim and T. F. Kelly — 3237 The solidification structures in submicron droplets of Fe–Co alloys

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